

Claims

1. A device for sealing a web (2) of material, comprising means (4) for emitting ultrasonic radiation, and contact means (5) acting in conjunction with the emitting means (4) in a sealing area, the device being characterised in that the contact means (5) are equipped with at least one cutting surface (10) designed to interact with a matching cutting surface (14) of a sealing end (12) of the emitting means (4) so as to simultaneously seal and cut the web of material (2).
2. The device according to claim 1, characterised in that the cutting surface (10) is defined by a sharp edge (9) of a protuberance (8) of the peripheral surface (6) of the contact means (5).
3. The device according to claim 1 or 2, characterised in that the contact means (5) comprise a contact roller (5).
4. The device according to claim 3, characterised in that the sharp edge (9) is the edge of a protuberance (8) of the cylindrical peripheral surface (6) of the roller (5).
5. The device according to one or more of the foregoing claims, characterised in that the cutting surface (14) of the means (4) consists of a sharp cutting edge (14) of the sealing end (12).
6. The device according to one or more of the foregoing claims from 1 to 5, characterised in that the cutting surface (14) of the means (4) consists of a sharp cutting edge (14) of a stepped surface (13) of the sealing end (12).
7. The device according to claim 6, characterised in that the stepped surface (13) has a quadrangular cross section.
8. A device (4) for emitting ultrasounds for sealing a web of material (2), comprising a sealing end (12), characterised in that

said sealing end (12) has a cutting surface (14) for cutting the web (2).

5 9. The device according to claim 8, characterised in that the cutting surface (14) consists of a sharp cutting edge (14) of a stepped surface (13) of the sealing end (12).

10. The device according to claim 9, characterised in that the surface (13) has a quadrangular cross section.